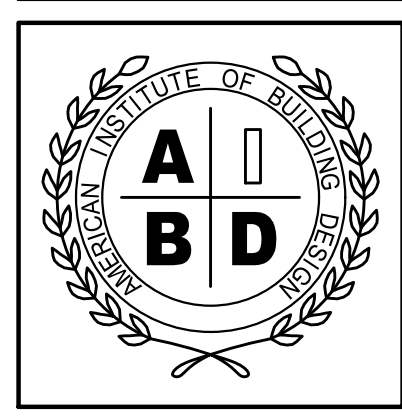


2 SECOND FLOOR ROOF FRAMING
1/4" = 1'-0"



1 SECOND FLOOR FRAMING PLAN
1/4" = 1'-0"



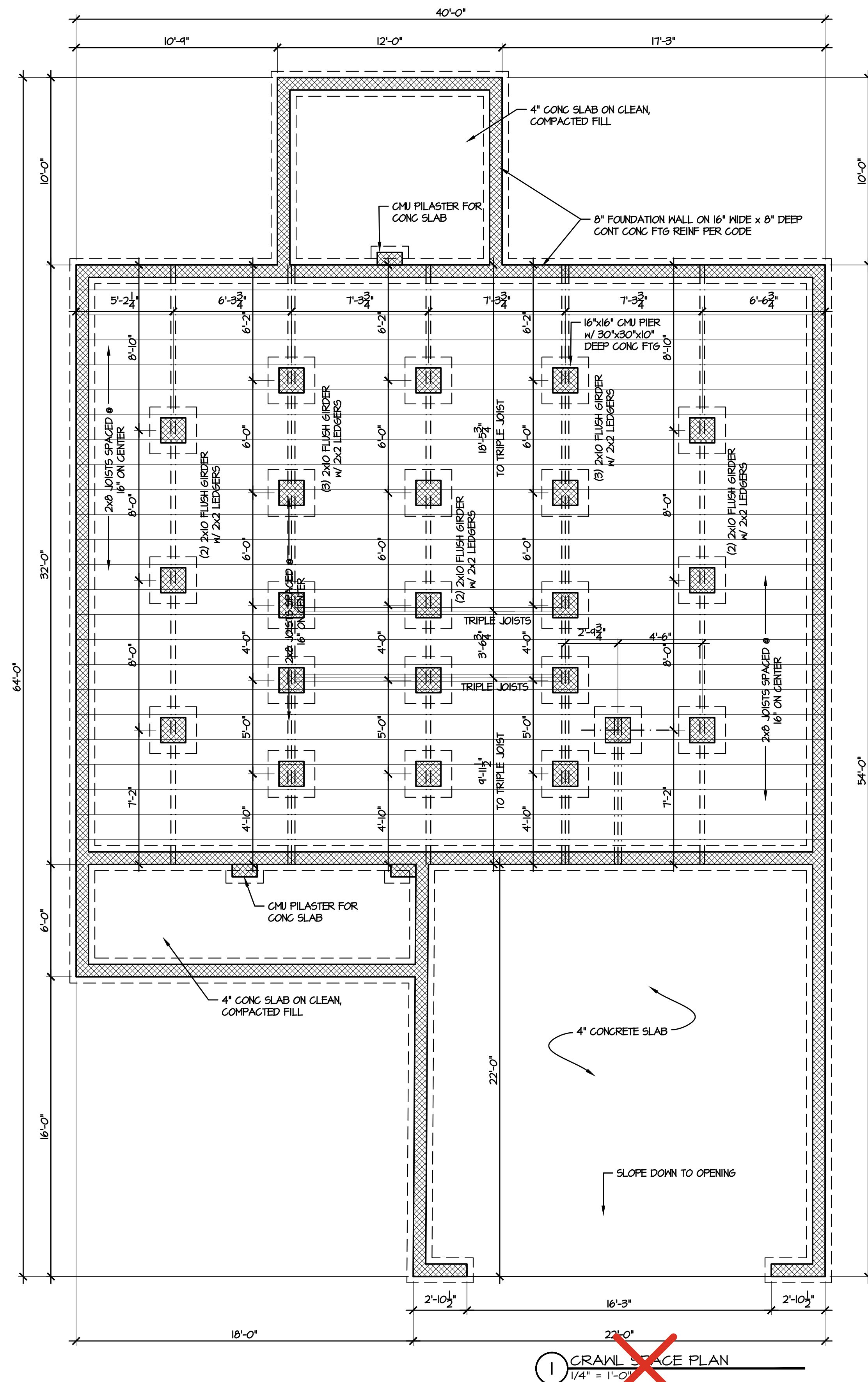
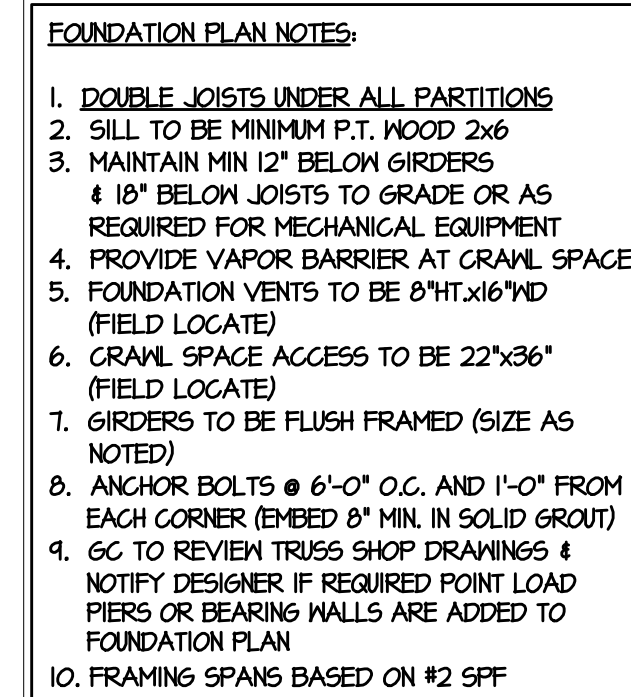


REVISION DATE:	
XX-XX-XX	XYZ

SHEET NO:

4

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Hanger			Beam/Girder
Label	Pcs	Description	fasteners
H2	26	IUS2.56/14 (Min)	12 10dx1 1/2

NOTES:

1. CUT HOLES CAREFULLY DO NOT OVERCUT HOLES! DO NOT CUT JOIST FLANGES!
2. Holes may be placed anywhere within the depth of the web. A minimum 1/4" clear distance from the flanges is recommended so as not to cut a flange.
3. Round holes up to 1 1/2" diameter may be placed anywhere in the web.
4. Holes larger than 1 1/2" are not permitted in cantilevers without special engineering.
5. Multiple holes shall have a clear separation along the length of the joist of at least twice the larger dimension of the larger adjacent hole, or a minimum of 12" center-to-center, whichever is greater.
6. Multiple holes may be spaced closer provided they fit within the boundary of an acceptable larger hole. Example: two 3" round holes aligned parallel to the joist length may be spaced 2" apart (clear distance) provided that a 3" high by 8" long rectangle or an 8" diameter round hole are acceptable for the joist depth at that location and completely encompasses the holes.
7. These web hole details are valid for simple and continuous span joists with uniform loads only, as sized from the tables contained in PWT's current I-Joist product guides. Larger holes than PWT's uniform loading conditions and/or closer proximity to supports may be possible, but require further analysis using PWT's design software. Please contact your local Pacific Woodtech® distributor for more details.
8. The maximum hole depth is the I-Joist Depth less 4" except the maximum hole depth is 6" for 9 1/2" PWTs, and 8" for 12 1/2" PWTs. Where the Maximum Hole Dimension exceeds the hole depth, the dimension refers to hole width and the depth of the hole is assumed to be the maximum for that joist depth. The maximum hole width is 1 1/2" for 9 1/2" PWTs, 1 3/4" for 12 1/2" PWTs, and 2" for 15 1/2" PWTs.

Beam Hole Details

The diagram illustrates the placement and spacing of holes in a beam. It shows a cross-section of a beam with a top flange, a web, and a bottom flange. Holes are shown in the web. The diagram includes labels for '1 foot' spacing, 'Minimum 2 x diameter of larger hole', '1 foot' spacing, '1/3 beam depth', 'Area A', 'Area B', '1/3 span length', and 'Clear span'. The beam is shown with a top flange, a web, and a bottom flange. Holes are shown in the web. The diagram illustrates the placement and spacing of holes in a beam, including the required clear distance between holes and the minimum clear distance from the flanges.

NOTES:

1. These guidelines apply to uniformly loaded beams selected from the Quick Reference Tables or the Uniform Load Tables within the LVL Beam and Header Technical Guide. For all other applications, such as beams with concentrated loads, please use the PWT's design software or contact your Pacific Woodtech distributor for assistance.
2. Round holes can be drilled anywhere in "Area A" provided that no more than four holes are cut, with the minimum spacing described in the diagram. The maximum hole size is 1 1/2" for depths up to 9 1/4" and 2" for depths greater than 9 1/4".
3. Rectangular holes are NOT allowed.
4. DO NOT drill holes in cantilevers without prior approval from the project engineer/architect.
5. Other hole sizes and configurations MAY be possible with further engineering analysis. For more information, contact your Pacific Woodtech distributor.
6. Up to three 2 1/4" holes may be drilled in "Area B" to accommodate wiring and/or water lines. These holes must be at least 1/2" apart. The holes should be located in the middle third of the depth, or a minimum of 3" from the bottom and top of the beam. For beams smaller than 9 1/4" I-Joist locate holes at mid-depth.
7. Protect plumbing holes from moisture.

NOTES:

- These guidelines apply to uniformly loaded beams selected from the Quick Reference Tables or the Uniform Load Tables within the U/L Beam and Header Technical Guide. For all other applications, such as beams with concentrated loads, please use the PWT's design software or contact your PACT Woodtech distributor for assistance.
- Round holes may be drilled anywhere in Area B, provided that no more than four holes are cut, with the minimum spacing described in the diagram. The maximum hole size is 1 - 1/2" for depths up to 9'-14" and 2" for depths greater than 9'-14".
- Rectangular holes are NOT allowed.
- DO NOT drill holes in cantilevers without prior approval from the project engineer/architect.
- Other hole sizes and configurations MAY be possible with further engineering analysis. For more information, contact your PACT Woodtech distributor.
- Up to three 3/4" holes may be drilled in Area B to accommodate wiring and/or water lines. These holes must be at least 12" apart. The holes should be located in the middle third of the beam, or a minimum of 3" from the bottom and top of the beam. For beams shallower than 9'-14" locate holes at mid-depth.
- Protect plumbing holes from moisture.

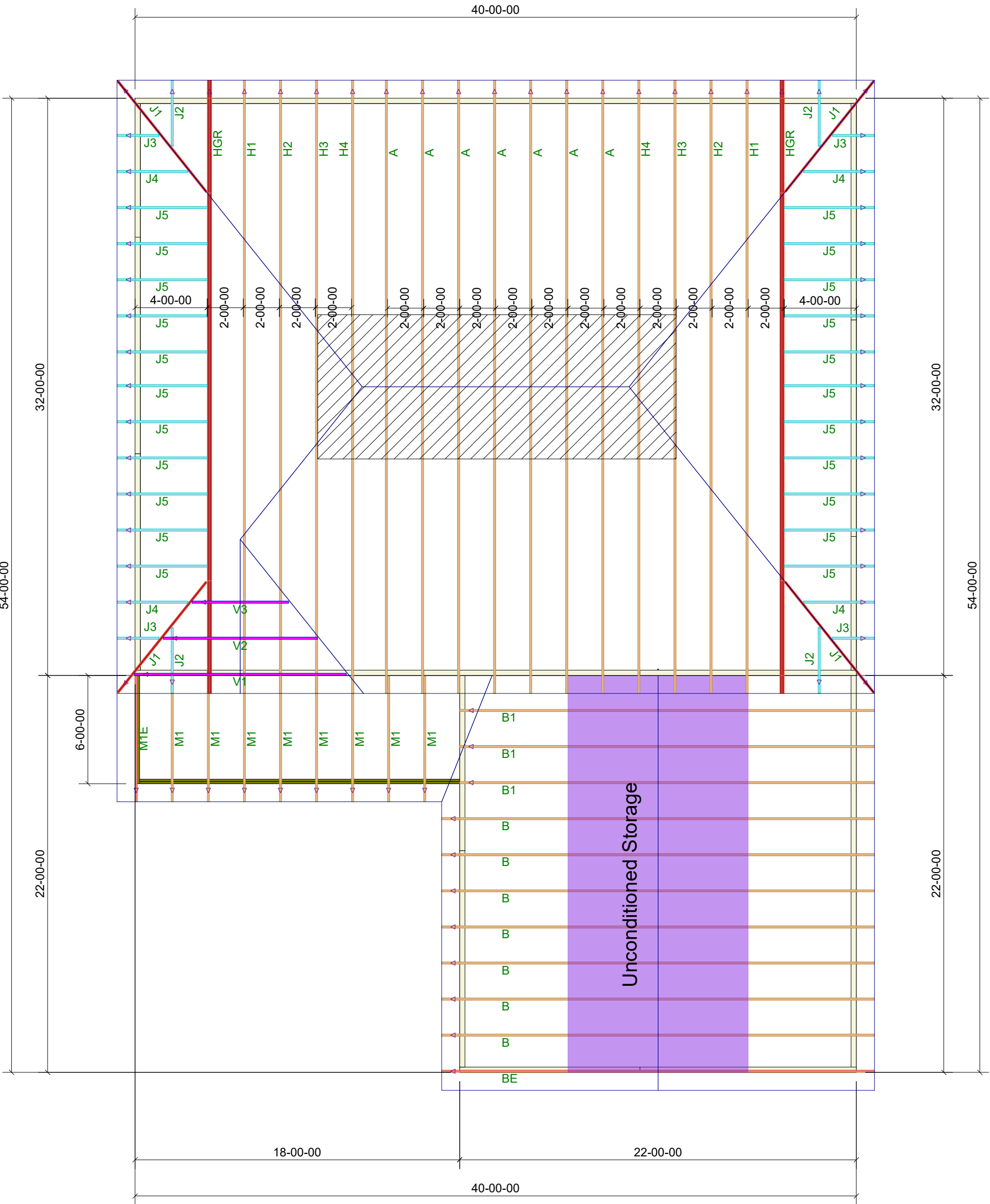



Installation Guide

For access to the PWT installation guide, please use the camera function on your mobile device and scan this QR Code or use the web address shown below to gain access to the installation guide.

<https://pwtewp.com/products/pwi-joist/#features>

Product Substitution Warning
FAILURE may result if this product is substituted with other brands or products. This analysis is for PACIFIC WOODTECH products only. US Lumber will not be held responsible if other brands are substituted.



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CAVINESS LAND			
Location		2383-Dunn	
Designer		RE	
DO NOT CUT, NOTCH, OR BORE HOLES UNLESS SPECIFIC, WRITTEN PERMISSION IS PROVIDED BY AN AUTHORIZED REPRESENTATIVE OF 84 LUMBER.			
TRUSS INSTALLATION REQUIRES TEMPORARY AND PERMANENT BRACING. GENERAL GUIDANCE IS PROVIDED IN SBGA DOCS B-1 and B-3. THESE ARE INCLUDED WITH EACH JOB IN YOUR TRUSS PACKET.			
Sheet #		1 of 1	
Roof Truss Placement Plan			
NOT TO SCALE			
DESIGNED DATE			
1/27/2025			



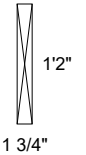
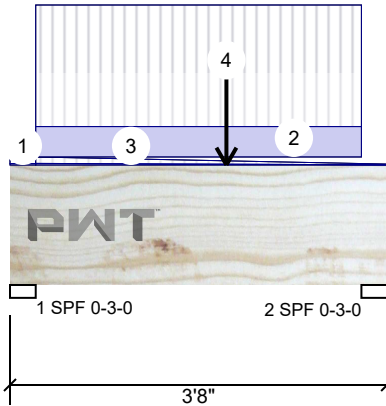
Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 1 of 1

FB2 2.0E 2900Fb PWT LVL 1.750" X 14.000" - PASSED

Level: 2nd Flr



Member Information

Type: Girder
Plies: 1
Moisture Condition: Dry
Deflection LL: 360
Deflection TL: 240
Importance: Normal - II
Temperature: Temp <= 100°F
General Load
Floor Live: 40 PSF
Dead: 10 PSF

Application: Floor
Design Method: ASD
Building Code: IRC 2021
Load Sharing: No
Deck: Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	592	194	0	0	0
2	Vertical	660	224	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.000"	Vert	35%	194 / 592	785	L	D+L
2 - SPF	3.000"	Vert	40%	224 / 660	884	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	944 ft-lb	2'1 1/4"	13396 ft-lb	7%	D+L	L
Shear	518 lb	2'3"	4655 lb	11%	D+L	L
LL Defl inch	0.005 (L/8273)	2'1 1/4"	0.110 (L/360)	4%	L	L
TL Defl inch	0.006 (L/6124)	2'1 1/4"	0.165 (L/240)	4%	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.002", Long Term = 0.003".
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top must be laterally braced at end bearings.
- 5 Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 0-3-0	0-3-7	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-3-0 to 3-5-0		Top	60 PLF	240 PLF	0 PLF	0 PLF	0 PLF	
3	Tie-In	0-3-0 to 3-8-0	0-3-13 to 0-0-7	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
4	Point	2-1-4		Far Face	195 lb	465 lb	0 lb	0 lb	0 lb	J11
	Self Weight				7 PLF					

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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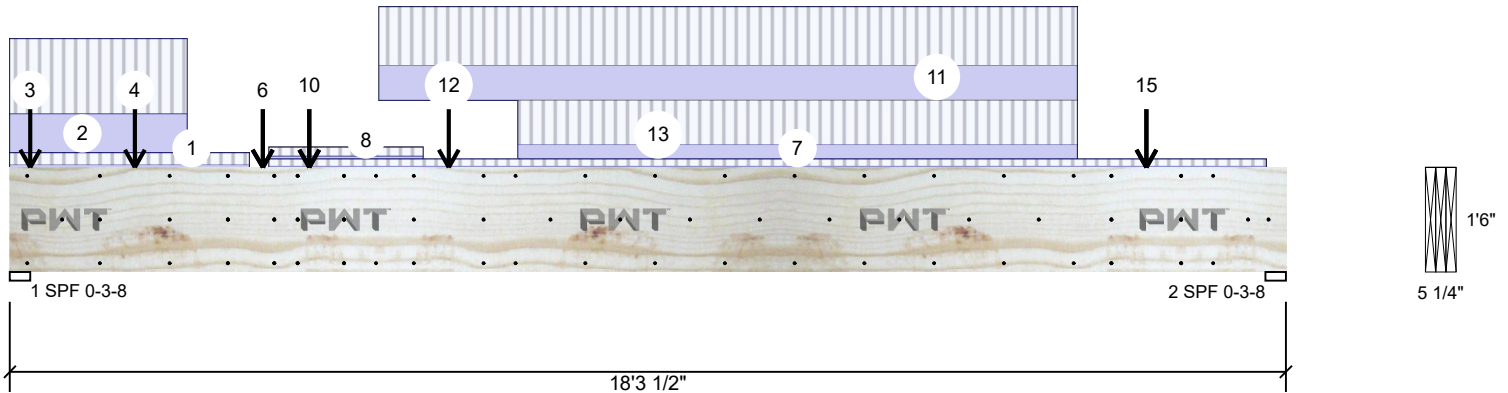
Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 1 of 5

FB1 2.0E 2900Fb PWT LVL 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Flr



Member Information

Type: Girder
Plies: 3
Moisture Condition: Dry
Deflection LL: 360
Deflection TL: 240
Importance: Normal - II
Temperature: Temp <= 100°F
General Load
Floor Live: 40 PSF
Dead: 10 PSF

Application: Floor
Design Method: ASD
Building Code: IRC 2021
Load Sharing: Yes
Deck: Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	4297	2957	0	0	0
2	Vertical	3390	2091	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	93%	2957 / 4297	7255	L	D+L
2 - SPF	3.500"	Vert	70%	2091 / 3390	5481	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	27732 ft-lb	8'8"	65703 ft-lb	42%	D+L	L
Shear	6337 lb	1'9 1/2"	17955 lb	35%	D+L	L
LL Defl inch	0.208 (L/1031)	9'1 3/16"	0.595 (L/360)	35%	L	L
TL Defl inch	0.348 (L/615)	9' 1/16"	0.893 (L/240)	39%	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.140", Long Term = 0.211".
- 3 Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Nail from both sides. Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
- 6 Girders are designed to be supported on the bottom edge only.
- 7 Top loads must be supported equally by all plies.
- 8 Top must be laterally braced at a maximum of 8'11 1/8" o.c.
- 9 Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 3-5-0	1-1-5	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 2-6-8		Near Face	146 PLF	284 PLF	0 PLF	0 PLF	0 PLF	
3	Point	0-3-8		Far Face	76 lb	305 lb	0 lb	0 lb	0 lb	J9
4	Point	1-9-8		Far Face	122 lb	486 lb	0 lb	0 lb	0 lb	J8
5	Point	3-7-8		Far Face	529 lb	273 lb	0 lb	0 lb	0 lb	J8

Continued on page 2...

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.
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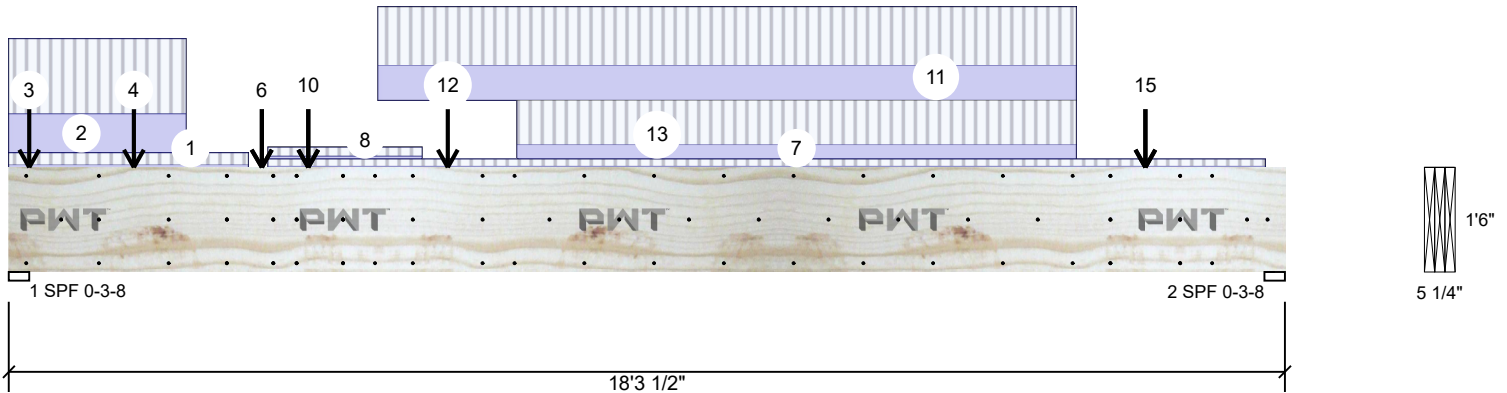


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FB1 2.0E 2900Fb PWT LVL 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Flr



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
6	Point	3-7-8		Near Face	416 lb	207 lb	0 lb	0 lb	0 lb	J2
7	Tie-In	3-8-8 to 18-0-0	0-9-11	Top	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
8	Tie-In	3-8-8 to 5-11-0	1-1-5	Top	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
9	Point	4-3-8		Far Face	190 lb	292 lb	0 lb	0 lb	0 lb	J8
10	Point	4-3-8		Near Face	230 lb	221 lb	0 lb	0 lb	0 lb	J2
11	Part. Uniform	5-3-8 to 15-3-8		Far Face	132 PLF	219 PLF	0 PLF	0 PLF	0 PLF	
12	Point	6-3-8		Near Face	313 lb	332 lb	0 lb	0 lb	0 lb	J2
13	Part. Uniform	7-3-8 to 15-3-8		Near Face	55 PLF	166 PLF	0 PLF	0 PLF	0 PLF	
14	Point	16-3-8		Far Face	260 lb	432 lb	0 lb	0 lb	0 lb	J8
15	Point	16-3-8		Near Face	109 lb	328 lb	0 lb	0 lb	0 lb	J2
	Self Weight				27 PLF					

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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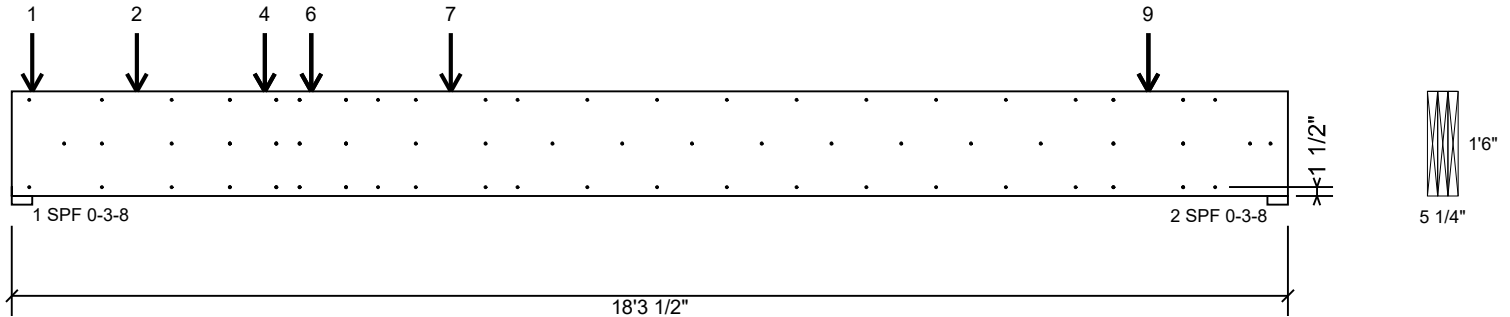


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FB1 2.0E 2900Fb PWT LVL 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. except for regions covered by concentrated load fastening. Nail from both sides. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	81.3 %
Load	286.7 PLF
Yield Limit per Foot	352.8 PLF
Yield Limit per Fastener	117.6 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+L
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 1-9-8 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

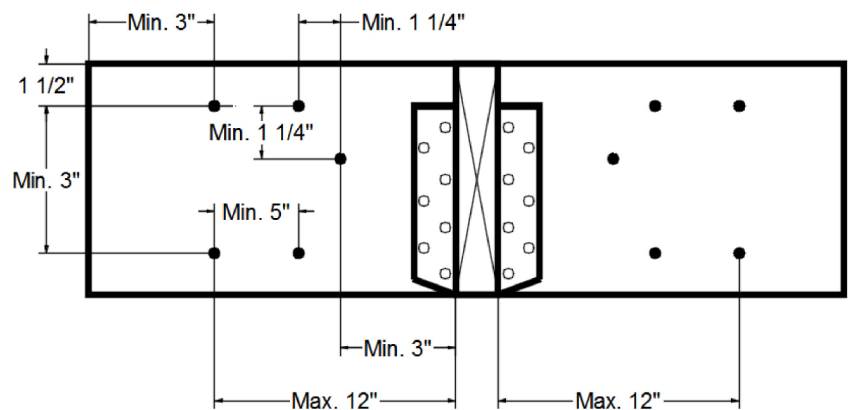
Capacity	57.5 %
Load	405.3lb.
Total Yield Limit	705.4 lb.
C _g	0.9998
C _m	1
Yield Limit per Fastener	117.6 lb.
Yield Mode	IV
Load Combination	D+L
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 3-7-8 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

Capacity	75.8 %
Load	534.7lb.
Total Yield Limit	705.4 lb.
C _g	0.9998
C _m	1
Yield Limit per Fastener	117.6 lb.
Yield Mode	IV
Load Combination	D+L
Duration Factor	1.00

Min/Max fastener distances for Concentrated Side Loads



Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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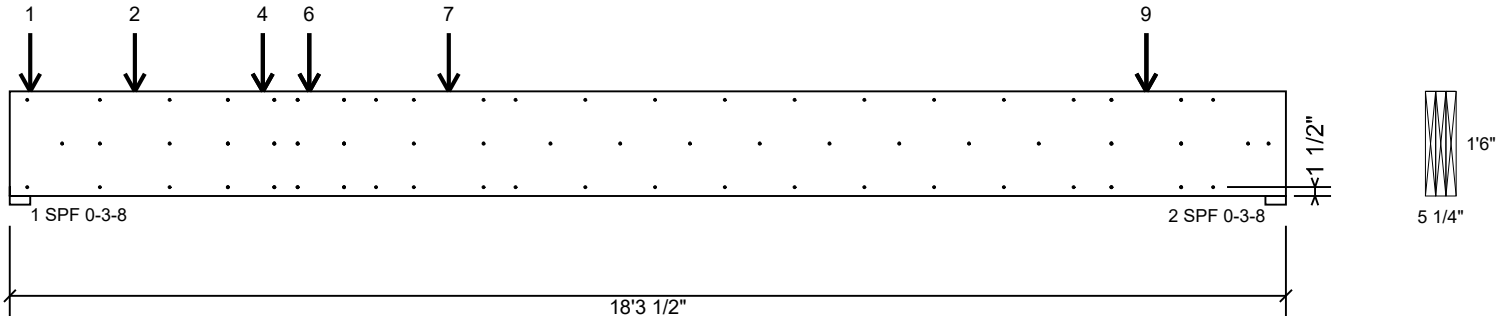
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FB1 2.0E 2900Fb PWT LVL 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 4-3-8 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

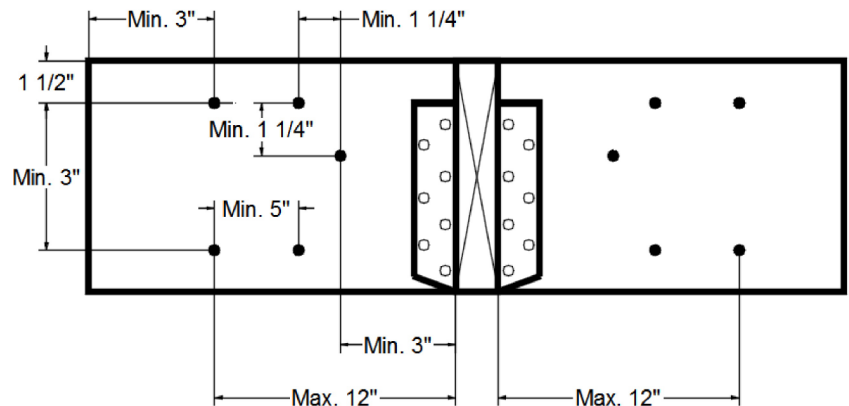
Capacity	45.6 %
Load	321.3lb.
Total Yield Limit	705.4 lb.
Cg	0.9998
Cm	1
Yield Limit per Fastener	117.6 lb.
Yield Mode	IV
Load Combination	D+L
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 6-3-8 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

Capacity	61.0 %
Load	430.0lb.
Total Yield Limit	705.4 lb.
Cg	0.9998
Cm	1
Yield Limit per Fastener	117.6 lb.
Yield Mode	IV
Load Combination	D+L
Duration Factor	1.00

Min/Max fastener distances for Concentrated Side Loads



Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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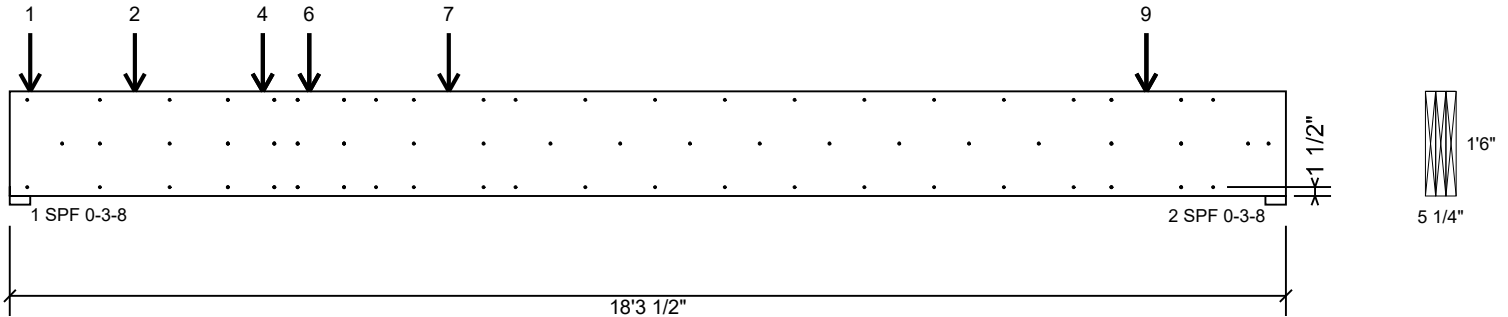
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FB1 2.0E 2900Fb PWT LVL 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Flr



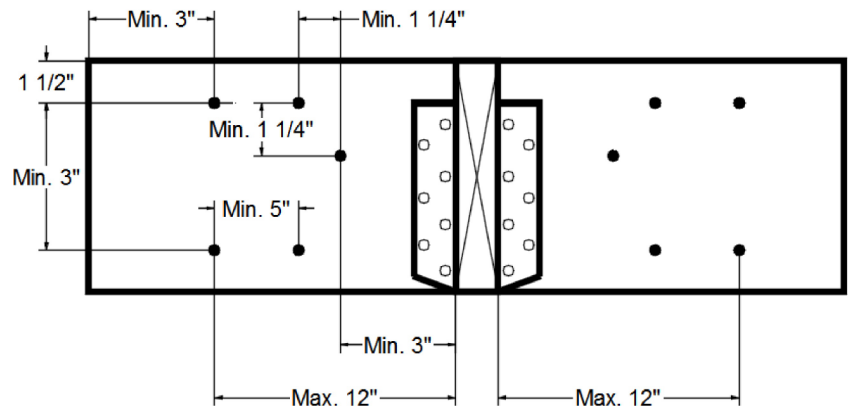
Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 16-3-8 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

Capacity	65.4 %
Load	461.3lb.
Total Yield Limit	705.4 lb.
Cg	0.9998
Cm	1
Yield Limit per Fastener	117.6 lb.
Yield Mode	IV
Load Combination	D+L
Duration Factor	1.00

Min/Max fastener distances for Concentrated Side Loads



Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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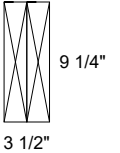
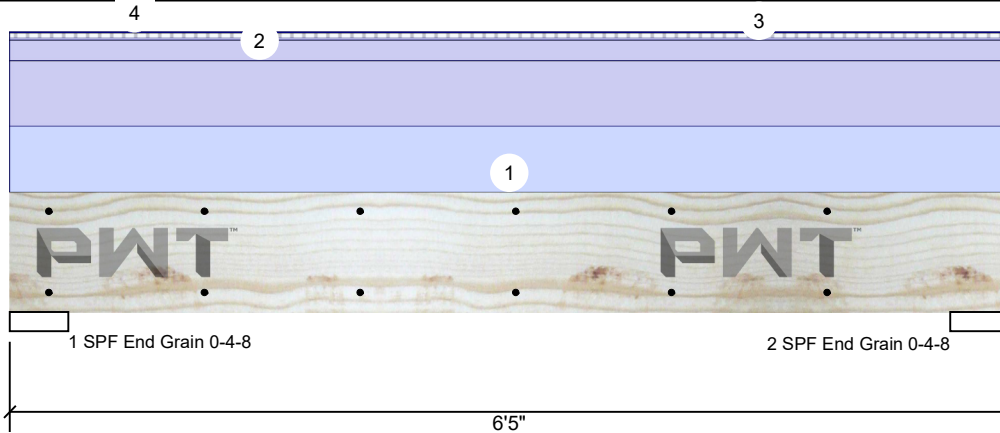
Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 1 of 2

HD2-C 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



Member Information

Type: Girder
Plies: 2
Moisture Condition: Dry
Deflection LL: 360
Deflection TL: 240
Importance: Normal - II
Temperature: Temp <= 100°F
General Load
Floor Live: 40 PSF
Dead: 10 PSF

Application: Floor
Design Method: ASD
Building Code: IRC 2021
Load Sharing: No
Deck: Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	93	1573	0	0	1149
2	Vertical	93	1573	0	0	1149

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	23%	1573 / 1149	2722	L	D+C
2 - SPF End Grain	4.500"	Vert	23%	1573 / 1149	2722	L	D+C

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3557 ft-lb	3'2 1/2"	15520 ft-lb	23%	D+C	L
Shear	1750 lb	1'1 3/4"	7689 lb	23%	D+C	L
LL Defl inch	0.025 (L/2783)	3'2 1/2"	0.193 (L/360)	13%	C	L
TL Defl inch	0.059 (L/1175)	3'2 1/2"	0.290 (L/240)	20%	D+C	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.034", Long Term = 0.051".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 6-5-0		Top	358 PLF	0 PLF	0 PLF	0 PLF	358 PLF	
2	Part. Uniform	0-0-0 to 6-5-0		Top	108 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Top	10 PLF	29 PLF	0 PLF	0 PLF	0 PLF	
	End	6-5-0			10 PLF	29 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 6-5-0		Top	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
	Self Weight				9 PLF					

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.
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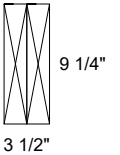
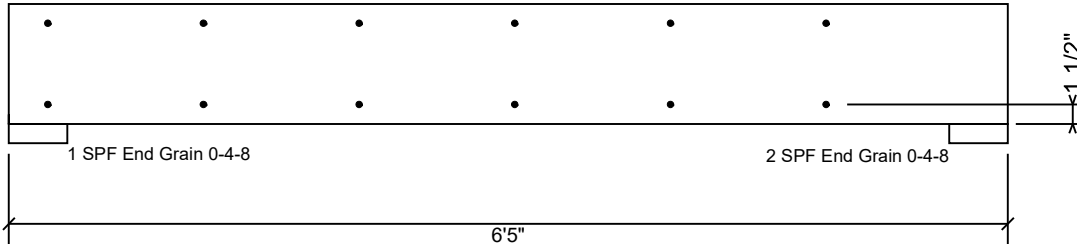
Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 2 of 2

HD2-C 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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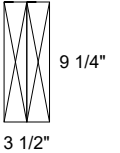
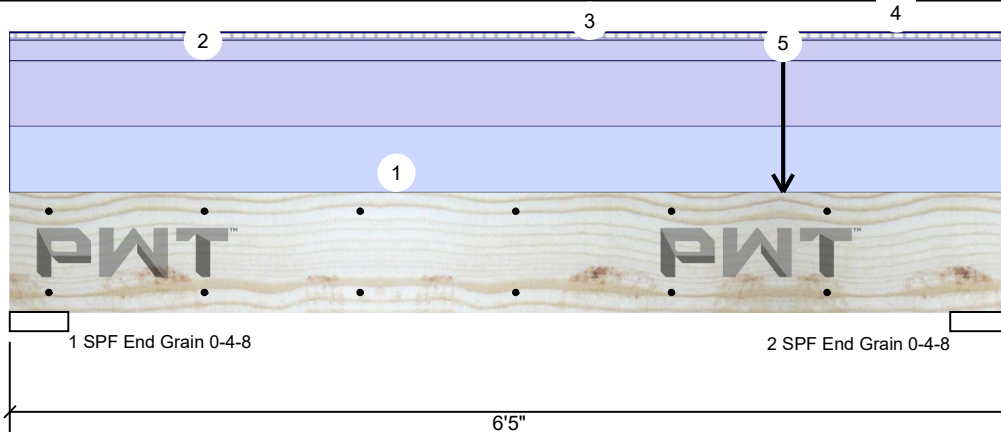
Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 1 of 3

HD2-B 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



Member Information

Type: Girder
Plies: 2
Moisture Condition: Dry
Deflection LL: 360
Deflection TL: 240
Importance: Normal - II
Temperature: Temp <= 100°F
General Load
Floor Live: 40 PSF
Dead: 10 PSF

Application: Floor
Design Method: ASD
Building Code: IRC 2021
Load Sharing: No
Deck: Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	93	1743	0	0	1319
2	Vertical	93	2270	0	0	1846

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	26%	1743 / 1319	3062	L	D+C
2 - SPF End Grain	4.500"	Vert	35%	2270 / 1846	4116	L	D+C

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4612 ft-lb	3'7 5/16"	15520 ft-lb	30%	D+C	L
Shear	3144 lb	5'3 1/4"	7689 lb	41%	D+C	L
LL Defl inch	0.034 (L/2033)	3'4 3/8"	0.193 (L/360)	18%	C	L
TL Defl inch	0.078 (L/896)	3'4 1/8"	0.290 (L/240)	27%	D+C	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.043", Long Term = 0.065".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 6-5-0		Top	358 PLF	0 PLF	0 PLF	0 PLF	358 PLF	
2	Part. Uniform	0-0-0 to 6-5-0		Top	108 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Top	10 PLF	29 PLF	0 PLF	0 PLF	0 PLF	
	End	6-5-0			10 PLF	29 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 6-5-0		Top	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
5	Point	4-11-10		Top	867 lb	0 lb	0 lb	0 lb	868 lb	PL2 Hip Girder

Continued on page 2...

Notes

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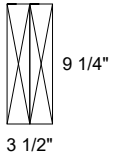
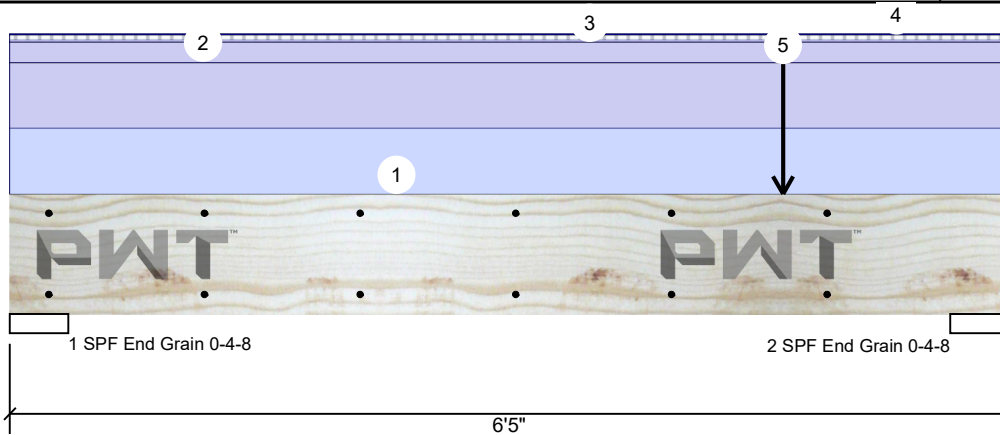
Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 2 of 3

HD2-B 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
	Bearing Length	0-3-8								
	Self Weight				9 PLF					

Notes

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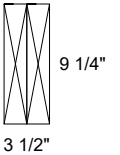
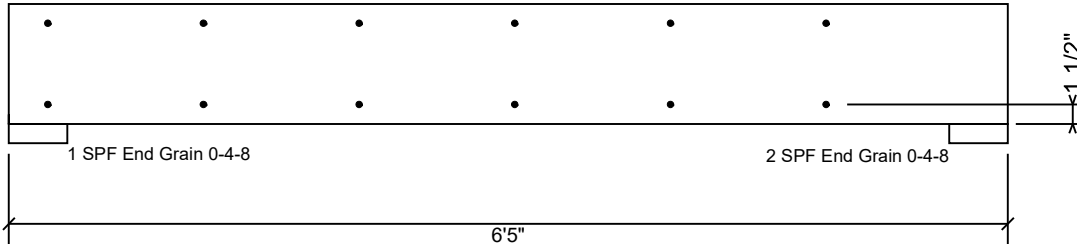
Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 3 of 3

HD2-B 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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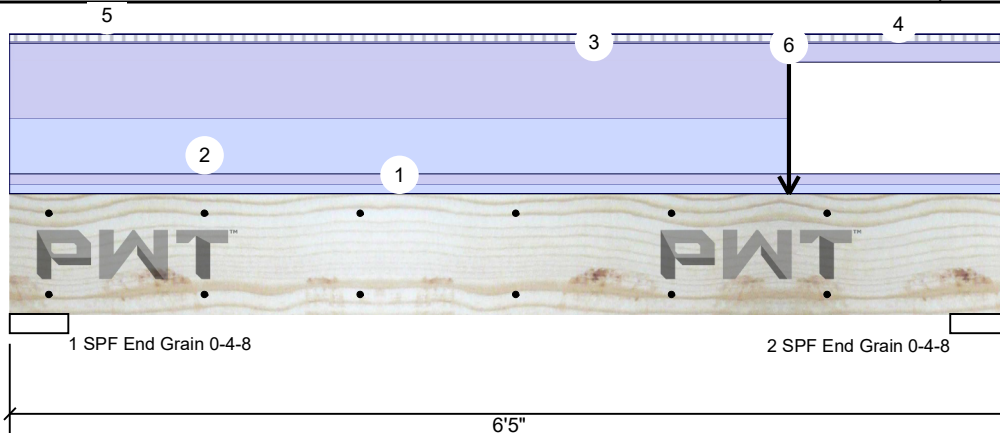
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Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 1 of 3

HD2-A 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



Member Information

Type: Girder
Plies: 2
Moisture Condition: Dry
Deflection LL: 360
Deflection TL: 240
Importance: Normal - II
Temperature: Temp <= 100°F
General Load
Floor Live: 40 PSF
Dead: 10 PSF

Application: Floor
Design Method: ASD
Building Code: IRC 2021
Load Sharing: No
Deck: Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	125	1812	0	0	1391
2	Vertical	125	1944	0	0	1524

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	27%	1812 / 1391	3202	L	D+C
2 - SPF End Grain	4.500"	Vert	29%	1944 / 1524	3468	L	D+C

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4634 ft-lb	3'5 7/8"	15520 ft-lb	30%	D+C	L
Shear	3189 lb	5'3 1/4"	7689 lb	41%	D+C	L
LL Defl inch	0.034 (L/2021)	3'3 7/8"	0.193 (L/360)	18%	C	L
TL Defl inch	0.078 (L/892)	3'3 3/4"	0.290 (L/240)	27%	D+C	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.044", Long Term = 0.065".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 6-4-9		Top	57 PLF	0 PLF	0 PLF	0 PLF	58 PLF	
2	Part. Uniform	0-0-0 to 5-0-1		Top	335 PLF	0 PLF	0 PLF	0 PLF	335 PLF	
3	Part. Uniform	0-0-0 to 6-5-0		Top	108 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0		Top	10 PLF	39 PLF	0 PLF	0 PLF	0 PLF	
	End	6-5-0			10 PLF	39 PLF	0 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 6-5-0		Top	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight

Continued on page 2...

Notes

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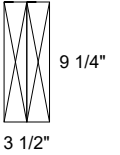
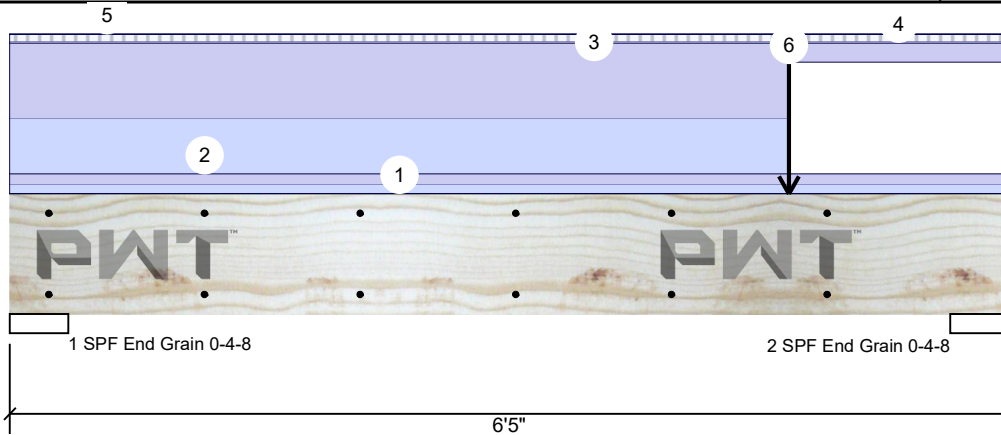
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Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 2 of 3

HD2-A 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
6	Point	5-0-1		Top	867 lb	0 lb	0 lb	0 lb	868 lb	PL1 Hip Girder
	Bearing Length	0-3-8								
	Self Weight				9 PLF					

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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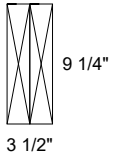
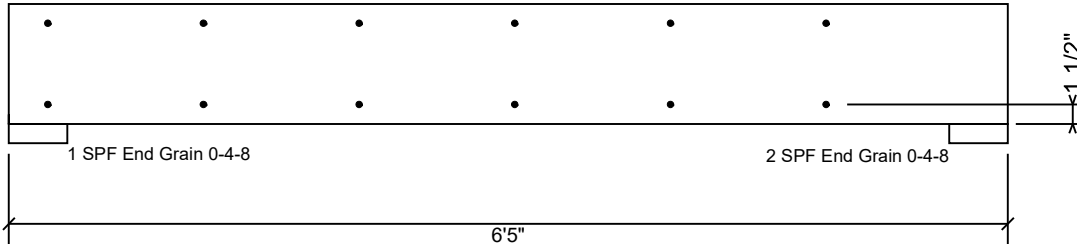
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Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 3 of 3

HD2-A 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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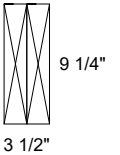
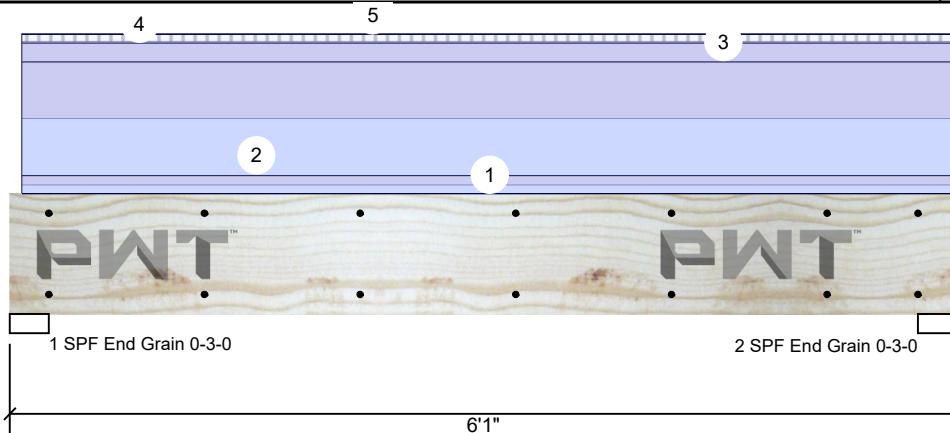
Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 1 of 2

HD2 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



Member Information

Type: Girder
Plies: 2
Moisture Condition: Dry
Deflection LL: 360
Deflection TL: 240
Importance: Normal - II
Temperature: Temp <= 100°F
General Load
Floor Live: 40 PSF
Dead: 10 PSF

Application: Floor
Design Method: ASD
Building Code: IRC 2021
Load Sharing: No
Deck: Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	115	1552	0	0	1163
2	Vertical	119	1595	0	0	1195

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	34%	1552 / 1163	2714	L	D+C
2 - SPF End Grain	3.000"	Vert	35%	1595 / 1195	2790	L	D+C

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3736 ft-lb	3' 1/2"	15520 ft-lb	24%	D+C	L
Shear	1854 lb	5' 3/4"	7689 lb	24%	D+C	L
LL Defl inch	0.026 (L/2631)	3' 1/2"	0.190 (L/360)	14%	C	L
TL Defl inch	0.061 (L/1127)	3' 1/2"	0.285 (L/240)	21%	D+C	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.035", Long Term = 0.052".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-1-0 to 6-1-0		Top	57 PLF	0 PLF	0 PLF	0 PLF	58 PLF	
2	Part. Uniform	0-1-0 to 6-1-0		Top	335 PLF	0 PLF	0 PLF	0 PLF	335 PLF	
3	Part. Uniform	0-1-0 to 6-1-0		Top	108 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-1-0		Top	10 PLF	39 PLF	0 PLF	0 PLF	0 PLF	
	End	6-1-0			10 PLF	39 PLF	0 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-1-0 to 6-1-0		Top	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
	Self Weight				9 PLF					

Notes

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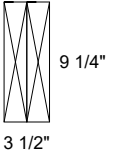
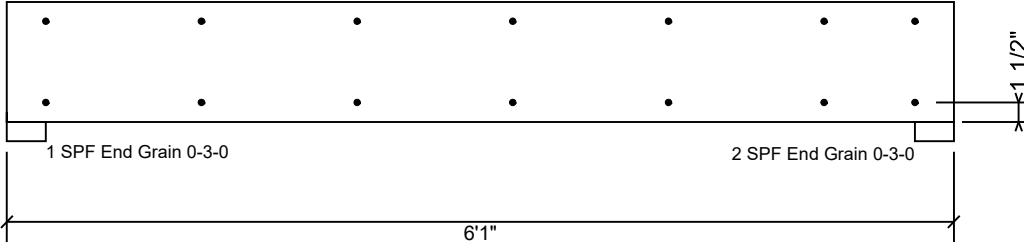
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Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 2 of 2

HD2 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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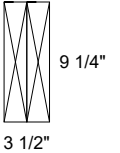
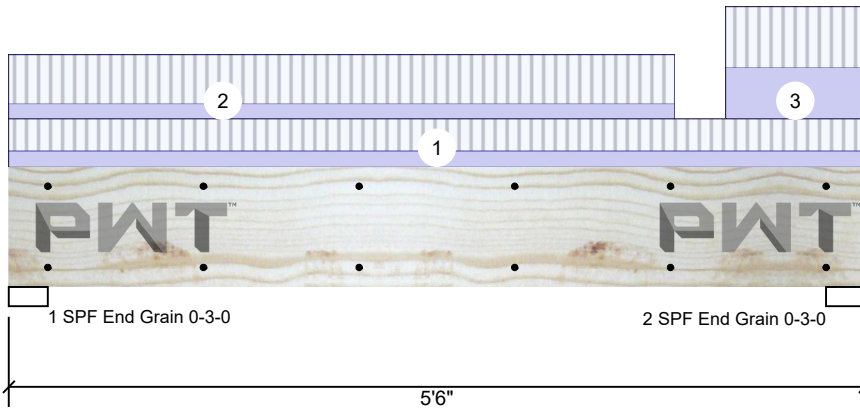
Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 1 of 2

HD4 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



Member Information

Type: Girder
Plies: 2
Moisture Condition: Dry
Deflection LL: 360
Deflection TL: 240
Importance: Normal - II
Temperature: Temp <= 100°F
General Load
Floor Live: 40 PSF
Dead: 10 PSF

Application: Floor
Design Method: ASD
Building Code: IRC 2021
Load Sharing: No
Deck: Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1561	683	0	0	0
2	Vertical	1567	860	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	28%	683 / 1561	2244	L	D+L
2 - SPF End Grain	3.000"	Vert	31%	860 / 1567	2427	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2667 ft-lb	2'8 7/8"	12416 ft-lb	21%	D+L	L
Shear	1408 lb	1' 1/4"	6151 lb	23%	D+L	L
LL Defl inch	0.025 (L/2423)	2'8 7/8"	0.171 (L/360)	15%	L	L
TL Defl inch	0.037 (L/1672)	2'9"	0.256 (L/240)	14%	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.011", Long Term = 0.017".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 5-6-0		Top	116 PLF	226 PLF	0 PLF	0 PLF	0 PLF	J1
2	Part. Uniform	0-0-0 to 4-3-4		Top	121 PLF	347 PLF	0 PLF	0 PLF	0 PLF	J4
3	Part. Uniform	4-7-4 to 5-6-0		Top	376 PLF	450 PLF	0 PLF	0 PLF	0 PLF	J5
	Self Weight				9 PLF					

Notes

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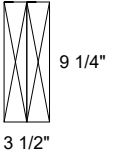
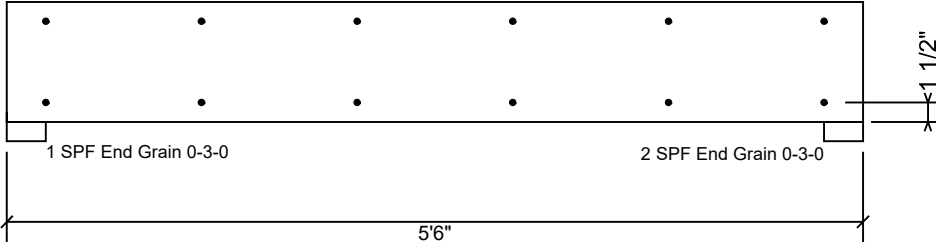
Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 2 of 2

HD4 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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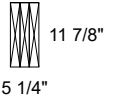
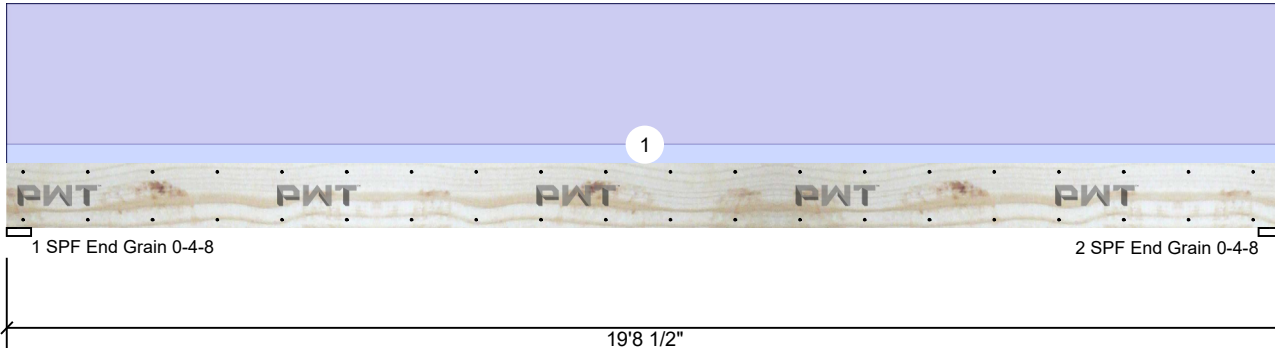
Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 1 of 2

HD1 2.0E 2900Fb PWT LVL 1.750" X 11.875" 3-Ply - PASSED

Level: 2nd Flr



Member Information

Type: Girder
Plies: 3
Moisture Condition: Dry
Deflection LL: 360
Deflection TL: 240
Importance: Normal - II
Temperature: Temp <= 100°F
General Load
Floor Live: 40 PSF
Dead: 10 PSF

Application: Floor
Design Method: ASD
Building Code: IRC 2021
Load Sharing: Yes
Deck: Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1555	0	0	197
2	Vertical	0	1555	0	0	197

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	10%	1555 / 197	1752	L	D+C
2 - SPF End Grain	4.500"	Vert	10%	1555 / 197	1752	L	D+C

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7185 ft-lb	9'10 1/4"	27943 ft-lb	26%	D	Uniform
Shear	1340 lb	18'4 1/8"	10661 lb	13%	D	Uniform
LL Defl inch	0.042 (L/5399)	9'10 5/16"	0.636 (L/360)	7%	C	L
TL Defl inch	0.377 (L/607)	9'10 5/16"	0.954 (L/240)	40%	D+C	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.335", Long Term = 0.502".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Nail from both sides. Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 19-8-8		Top	140 PLF	0 PLF	0 PLF	0 PLF	20 PLF	
	Self Weight				18 PLF					

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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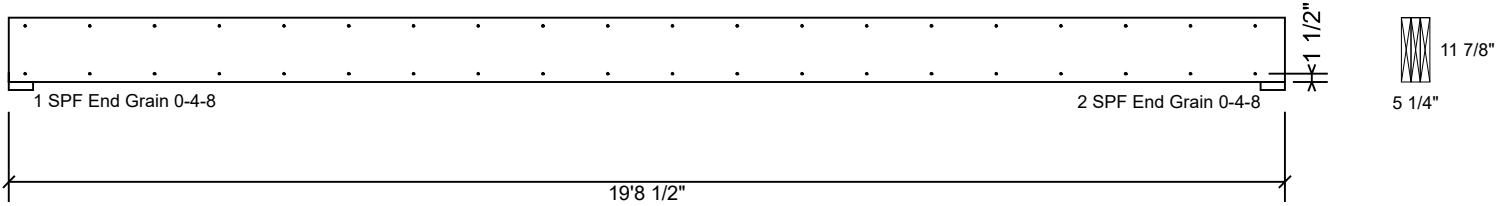
Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL2560
Address:

Date: 12/16/2024
Input by: Kyle Militzer
Job Name: CL2560 GR
Project #: CL2560 GR

Page 2 of 2

HD1 2.0E 2900Fb PWT LVL 1.750" X 11.875" 3-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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